

## EAST Search History

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| S1    | 1     | 10/757355  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | ADJ              | ON      | 2006/07/24 17:45 |
| S2    | 21    | ("3882285" "4988333" "5411467" "3870832" "554096" "3712962").pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/07/24 17:51 |
| S3    | 4     | "3870832".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/07/24 17:51 |
| S4    | 5     | "3712962".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/07/24 17:52 |
| S5    | 5     | "554096".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/07/24 17:53 |
| S6    | 85    | Strouse.inv.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/07/24 17:54 |
| S7    | 46651 | "1896".PY.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/07/24 17:54 |
| S8    | 0     | "1896".PY. Strouse.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/07/24 17:55 |
| S9    | 0     | "1896".PY. Strouse.inv.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/07/24 17:55 |
| S10   | 0     | "1896".PY. Strouse   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/07/24 17:55 |
| S11   | 0     | "1896".PY. "554"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/07/24 17:55 |
| S12   | 46651 | "1896".PY.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/07/24 17:55 |

## EAST Search History

|     |       |   |   |     |    |                  |
|-----|-------|---|---|-----|----|------------------|
| S13 | 23325 | "1896".ISY.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 17:56 |
| S14 | 854   | "18960204".PD.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 17:57 |
| S15 | 0     | "18960204".PD. Strouse  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 17:57 |
| S16 | 0     | "18960204".PD. S\$7.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 17:57 |
| S17 | 0     | "18960204".PD. S\$.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 17:58 |
| S18 | 56    | Piezoelectric cochlear (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) support  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:12 |
| S19 | 56    | Piezoelectric cochlear (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (support or brace)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:13 |
| S20 | 114   | Piezoelectric cochlear (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:29 |
| S21 | 92    | Piezoelectric cochlear (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (ceramic or film or crystal)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:29 |
| S22 | 1     | Piezoelectric cochlear (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (ceramic or film or crystal) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:25 |
| S23 | 1     | 09/429894   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:21 |
| S24 | 18    | ("5277694"   "5440237"   "5531787"   "5558618"   "5729077"   "5762583"   "5772575"   "5782744"   "5788711"   "5804907"   "5814095"   "5836863"   "5842967"   "5859916"   "5879283"   "5900274"   "6050933"   "6068589").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | ADJ | ON | 2006/07/24 19:24 |

## EAST Search History

|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S25 | 16   | ("5277694"   "5440237"   "5531787"   "5558618"   "5729077"   "5762583"   "5772575"   "5782744"   "5788711"   "5804907"   "5814095"   "5836863"   "5842967"   "5859916"   "5879283"   "5900274"   "6050933"   "6068589").PN. AND piezoelectric  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ | ON | 2006/07/24 19:24 |
| S26 | 3    | Piezoelectric (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (ceramic or film or crystal) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:25 |
| S28 | 3    | Piezoelectric (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:34 |
| S30 | 2    | Piezoelectric (sealed or hermetic or hermetically or airtight) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate)) (cochlear or ossicle)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:27 |
| S31 | 2    | Piezoelectric (sealed or hermetic or hermetically or airtight) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate)) (cochlear or ossicle or ear)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:27 |
| S32 | 3    | Piezoelectric (sealed or hermetic or hermetically or airtight) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate)) (cochlear or ossicle or ear or hearing)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:28 |
| S35 | 59   | Piezoelectric cochlear (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (ceramic or film or crystal) adhesive   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:34 |
| S36 | 30   | (ceramic or film or crystal) adhesive Piezoelectric (sealed or hermetic or hermetically or airtight) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:35 |
| S37 | 3    | (ceramic or film or crystal) adhesive Piezoelectric (sealed or hermetic or hermetically or airtight) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate)) (ear or cochlear or hearing or ossicle)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:35 |
| S38 | 343  | (ceramic or film or crystal) adhesive Piezoelectric (sealed or hermetic or hermetically or airtight) (ear or cochlear or hearing or ossicle)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 19:36 |
| S39 | 227  | (ceramic or film or crystal) adhesive Piezoelectric (sealed or hermetic or hermetically or airtight) (ear or cochlear or hearing or ossicle) edge  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 20:16 |
| S40 | 0    | ("6554761").URPN.  | USPAT   | ADJ | ON | 2006/07/24 19:38 |
| S41 | 1823 | Sunil.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR  | ON | 2006/07/24 19:39 |

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|     |      |                          |   |     |    |                  |
|-----|------|--------------------------|---|-----|----|------------------|
| S42 | 0    | "Sunil adj puria".in.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                         | OR  | ON | 2006/07/24 19:39 |
| S43 | 20   | sunil.in. AND puria.inv. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                         | OR  | ON | 2006/07/24 19:40 |
| S44 | 2    | EP ADJ "1216444"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR  | ON | 2006/07/24 19:48 |
| S45 | 2    | EP-1216444-\$.DID.       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/24 19:50 |
| S46 | 0    | 09/407751                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/24 19:51 |
| S47 | 7    | 09/464036                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/24 19:51 |
| S48 | 0    | "09407751"               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/24 19:51 |
| S49 | 1    | "09464036"               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/24 19:51 |
| S50 | 0    | ("2001/0003788").URPN.   | USPAT   | ADJ | ON | 2006/07/24 19:53 |
| S51 | 4638 | Ball.inv.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                         | ADJ | ON | 2006/07/24 19:53 |
| S52 | 52   | Ball.inv. Geoffrey.inv.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                         | AND | ON | 2006/07/24 19:53 |
| S53 | 52   | Ball.in. Geoffrey.in.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                         | AND | ON | 2006/07/24 20:00 |
| S54 | 1    | "6093144".pn.            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                         | AND | ON | 2006/07/24 19:54 |

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|     |    |  |   |     |    |                  |
|-----|----|--|---|-----|----|------------------|
| S55 | 20 | Ball.in. Geoffrey.in. piezoelectric  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | AND | ON | 2006/07/24 20:01 |
| S56 | 20 | Ball.in. Geoffrey.in. piezoelectric (sealed or hermetic or hermetically or airtight)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | AND | ON | 2006/07/24 20:07 |
| S57 | 5  | Ball.in. Geoffrey.in. piezoelectric (sealed or hermetic or hermetically or airtight) edge  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | AND | ON | 2006/07/24 20:11 |
| S58 | 16 | Ball.in. Geoffrey.in. piezoelectric (sealed or hermetic or hermetically or airtight) rectangular   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | AND | ON | 2006/07/24 20:19 |
| S59 | 0  | "10757355"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/24 20:16 |
| S60 | 1  | "10/757355"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/07/25 19:24 |
| S61 | 15 | Ball.in. Geoffrey.in. piezoelectric (sealed or hermetic or hermetically or airtight) incus   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | AND | ON | 2006/07/24 20:22 |
| S62 | 10 | Ball.in. Geoffrey.in. piezoelectric (sealed or hermetic or hermetically or airtight) incus adj stapes  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | AND | ON | 2006/07/24 20:22 |
| S63 | 76 | (US-20030109903-\$ or US-20010049466-\$ or US-20010003788-\$ or US-20030171787-\$ or US-20020071581-\$ or US-20020051551-\$ or US-20020019669-\$ or US-20040210289-\$ or US-20030053284-\$ or US-20020019668-\$ or US-20020098410-\$ or US-20060132549-\$ or US-20040133250-\$ or US-20040039245-\$ or US-20030060676-\$ or US-20050113633-\$).did. or (US-5411467-\$ or US-4988333-\$ or US-3882285-\$ or US-3870832-\$ or US-3712962-\$ or US-6736770-\$ or US-6171229-\$ or US-6161046-\$ or US-6005955-\$ or US-5913815-\$ or US-5906635-\$ or US-5800336-\$ or US-5624376-\$ or US-5456654-\$ or US-5277694-\$ or US-6554761-\$ or US-6217508-\$ or US-6190305-\$ or US-6068589-\$ or US-5879283-\$ or US-5859916-\$ or US-5842967-\$ or US-5804907-\$ or US-5788711-\$ or US-5782744-\$ or US-5762583-\$).did. or (US-5729077-\$ or US-6137889-\$ or US-5857958-\$ or US-5558618-\$ or US-5531787-\$ or US-5440237-\$ or US-6050933-\$ or US-5836863-\$ or US-5814095-\$ or US-5772575-\$ or US-6629922-\$ or US-6093144-\$ or US-6676592-\$ or US-6626822-\$ or US-6139488-\$ or US-6024717-\$ or US-5949895-\$ or US-5897486-\$ or US-5795287-\$ or US-5554096-\$ or US-4658803-\$ or US-6475134-\$).did. or (US-3712962-\$).did. or (WO-9931933-\$ or WO-9915111-\$ or WO-9841056-\$ or WO-9817184-\$ or WO-9621335-\$ or GB-2190785-\$).did. or (DE-3918086-\$ or US-4988333-\$ or US-3882285-\$ or US-3870832-\$ or WO-200126272-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO;<br>DERWENT      | ADJ | ON | 2006/07/25 11:28 |

## EAST Search History

|     |    |   |   |     |    |                  |
|-----|----|---|---|-----|----|------------------|
| S64 | 25 | S63 AND piezoelectric (sealed or hermetic or hermetically or airtight) AND (stabilizer or support or brace or stabilize) AND (middle ear) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 16:53 |
| S65 | 4  | S63 AND (insultating or insulate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 16:54 |
| S66 | 17 | S63 AND (insultating or insulate or insulated)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 16:54 |
| S67 | 2  | ("5277694"   "5772575").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | ADJ | ON | 2006/07/25 17:16 |
| S68 | 0  | "supported on a first end in a recess of the oval window".clm.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/07/25 17:16 |
| S69 | 0  | "supported on a first end in a recess of the oval window".clm.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 17:18 |
| S70 | 0  | "recess of the oval window".clm.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/07/25 17:18 |
| S71 | 0  | "recess of the oval window".clm.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 17:18 |
| S72 | 0  | "of the oval window".clm.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/07/25 17:18 |
| S73 | 0  | (of the oval window).clm.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/07/25 17:19 |
| S74 | 0  | (of the oval window).clm.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 17:19 |

## EAST Search History

|     |       |  |   |     |    |                  |
|-----|-------|--|---|-----|----|------------------|
| S75 | 91348 | (window).clm.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 17:19 |
| S76 | 453   | (oval window).clm.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/25 17:19 |
| S77 | 56    | (oval window).clm.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/07/25 17:19 |
| S78 | 0     | supported on a first end in a recess of the oval window  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/07/25 17:19 |
| S79 | 11    | ossicle adj replacement  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/25 17:58 |
| S80 | 2     | Piezoelectric (sealed or hermetic or hermetically or airtight) (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (ceramic or film or crystal) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate)) ear | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/25 18:52 |
| S81 | 27    | Piezoelectric (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (ceramic or film or crystal) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/25 18:56 |
| S82 | 27    | Piezoelectric (biocompatible or bio-compatible or (bio adj compatible) or biofriendly or (bio adj friendly)) (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/25 18:57 |
| S83 | 429   | Piezoelectric (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/25 18:57 |
| S84 | 5     | Piezoelectric ear (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/25 18:59 |
| S85 | 2     | Piezoelectric cochlear (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/25 18:59 |

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|     |    |   |   |      |    |                  |
|-----|----|---|---|------|----|------------------|
| S86 | 22 | Piezoelectric (PZN-PT or (PZN adj PT) or PMN-PT or (PMN adj PT) or (lead adj zinc adj niobate-lead adj titanate) or (lead adj magnesium adj niobate-lead adj titanate))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | NEAR | ON | 2006/07/25 19:03 |
| S87 | 1  | WO00/01635.PTPN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | NEAR | ON | 2006/07/25 19:04 |
| S88 | 1  | WO00/01635.PTPN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2006/07/25 19:04 |
| S89 | 1  | PCT/SG99/00062.PCT.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2006/07/25 19:04 |
| S90 | 2  | "6627104".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND  | ON | 2006/07/25 19:24 |
| S91 | 77 | (US-20030109903-\$ or US-20010049466-\$ or US-20010003788-\$ or US-20030171787-\$ or US-20020071581-\$ or US-20020051551-\$ or US-20020019669-\$ or US-20040210289-\$ or US-20030053284-\$ or US-20020019668-\$ or US-20020098410-\$ or US-20060132549-\$ or US-20040133250-\$ or US-20040039245-\$ or US-20030060676-\$ or US-20050113633-\$).did. or (US-5411467-\$ or US-4988333-\$ or US-3882285-\$ or US-3870832-\$ or US-3712962-\$ or US-6736770-\$ or US-6171229-\$ or US-6161046-\$ or US-6005955-\$ or US-5913815-\$ or US-5906635-\$ or US-5800336-\$ or US-5624376-\$ or US-5456654-\$ or US-5277694-\$ or US-6554761-\$ or US-6217508-\$ or US-6190305-\$ or US-6068589-\$ or US-5879283-\$ or US-5859916-\$ or US-5842967-\$ or US-5804907-\$ or US-5788711-\$ or US-5782744-\$ or US-5762583-\$).did. or (US-5729077-\$ or US-6137889-\$ or US-5857958-\$ or US-5558618-\$ or US-5531787-\$ or US-5440237-\$ or US-6050933-\$ or US-5836863-\$ or US-5814095-\$ or US-5772575-\$ or US-6629922-\$ or US-6093144-\$ or US-6676592-\$ or US-6626822-\$ or US-6139488-\$ or US-6024717-\$ or US-5949895-\$ or US-5897486-\$ or US-5795287-\$ or US-5554096-\$ or US-4658803-\$ or US-6475134-\$ or US-6627104-\$).did. or (US-3712962-\$).did. or (WO-9931933-\$ or WO-9915111-\$ or WO-9841056-\$ or WO-9817184-\$ or WO-9621335-\$ or GB-2190785-\$).did. or (DE-3918086-\$ or US-4988333-\$ or US-3882285-\$ or US-3870832-\$ or WO-200126272-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO;<br>DERWENT                  | ADJ  | ON | 2006/07/26 11:48 |
| S92 | 43 | S91 (thickness or width)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND  | ON | 2006/07/26 11:56 |



## EAST Search History

|          |        |   |   |      |    |                  |
|----------|--------|---|---|------|----|------------------|
| S93      | 41     | S91 (thickness or thick)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND  | ON | 2006/07/26 12:19 |
| S94      | 2      | "20010003788"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND  | ON | 2006/07/26 12:29 |
| S95      | 43     | S91 circuit   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND  | ON | 2006/07/26 13:13 |
| S96      | 263    | piezo\$electric wireless implantable electric circuit                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND  | ON | 2006/07/26 13:13 |
| S97      | 263    | piezo\$electric wireless implantable electric circuit                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | AND  | ON | 2006/07/26 13:14 |
| S98      | 32     | piezo\$electric AND wireless AND implantable AND electric circuit                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ  | ON | 2006/07/26 16:29 |
| S99      | 52     | piezo\$electric AND implantable AND electric circuit                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ  | ON | 2006/07/26 13:21 |
| S10<br>0 | 0      | piezo\$electric AND implantable AND electric circuit (ear or cochlear or ossicle)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ  | ON | 2006/07/26 13:21 |
| S10<br>1 | 21     | piezo\$electric AND implantable AND electric circuit AND (ear or cochlear or ossicle) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ  | ON | 2006/07/26 13:21 |
| S10<br>2 | 28     | S91 AND screw   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | ADJ  | ON | 2006/07/26 14:08 |
| S10<br>3 | 4      | 08/695099   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | ADJ  | ON | 2006/07/26 14:19 |
| S10<br>4 | 1      | "5836863".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | ADJ  | ON | 2006/07/26 15:12 |
| S10<br>5 | 1      | "20020019669"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | ADJ  | ON | 2006/07/26 15:51 |
| S10<br>6 | 948847 | (support or brace or adjust or position) (wedge or plate)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | WITH | ON | 2006/07/26 15:52 |

## EAST Search History

|          |        |   |   |      |    |                  |
|----------|--------|---|---|------|----|------------------|
| S10<br>7 | 192446 | (support or brace or adjust or position) (wedge or plate)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | NEAR | ON | 2006/07/26 15:52 |
| S10<br>8 | 422    | (support or brace or adjust or position) (wedge or plate) post              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | NEAR | ON | 2006/07/26 15:53 |
| S10<br>9 | 0      | (support or brace or adjust or position) (wedge or plate) post cochlear     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | NEAR | ON | 2006/07/26 15:53 |
| S11<br>0 | 0      | (support or brace or adjust or position) (wedge or plate) post ear          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | NEAR | ON | 2006/07/26 15:53 |
| S11<br>1 | 0      | (support or brace or adjust or position) (wedge or plate) post bone         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | NEAR | ON | 2006/07/26 15:53 |
| S11<br>2 | 53     | (support or brace or adjust or position) (wedge or plate) post bone         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | WITH | ON | 2006/07/26 15:55 |
| S11<br>3 | 349    | (support or brace or adjust or position) (wedge or plate) post ear          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | WITH | ON | 2006/07/26 16:15 |
| S11<br>4 | 0      | (support or brace or adjust or position) (wedge or plate) post cochlear     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | WITH | ON | 2006/07/26 16:03 |
| S11<br>5 | 0      | (support or brace or adjust or position) (wedge or plate) post ear cochlear | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                  | WITH | ON | 2006/07/26 16:15 |
| S11<br>6 | 516    | piezoelectric WITH housing WITH circuit                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ  | ON | 2006/07/26 16:19 |
| S11<br>7 | 27     | piezoelectric WITH housing WITH circuit AND (ear or cochlear or ossicle)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ  | ON | 2006/07/26 16:19 |
| S11<br>8 | 8083   | circuit NEAR housing  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ  | ON | 2006/07/26 16:29 |
| S11<br>9 | 496    | circuit NEAR housing AND (ear or cochlear)                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ  | ON | 2006/07/26 16:29 |
| S12<br>0 | 17     | circuit NEAR housing AND (cochlear)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | ADJ  | ON | 2006/07/26 16:29 |

## EAST Search History

|          |       |   |   |     |    |                  |
|----------|-------|---|---|-----|----|------------------|
| S12<br>1 | 18    | "554096"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/28 18:21 |
| S12<br>2 | 18    | "554096"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/07/28 18:22 |
| S12<br>3 | 9052  | (600/9 600/10 600/11 600/12 600/13 600/14 600/15 600/29 600/30 600/31 600/32 623/14.13 604/96.01 128/897 128/898 128/899).ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR  | ON | 2007/05/15 21:59 |
| S12<br>4 | 314   | S123 AND piezoelectric  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR  | ON | 2006/07/28 19:50 |
| S12<br>5 | 112   | S123 AND piezoelectric AND housing  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR  | ON | 2006/07/28 19:50 |
| S12<br>6 | 314   | S123 AND piezoelectric  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR  | ON | 2006/07/28 19:51 |
| S12<br>7 | 32    | S123 AND piezoelectric AND (microphone or hearing)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR  | ON | 2006/07/28 19:52 |
| S12<br>8 | 25087 | piezoelectric WITH circuit  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/28 20:06 |
| S12<br>9 | 518   | piezoelectric WITH circuit WITH housing   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/28 20:06 |
| S13<br>0 | 70    | piezoelectric WITH circuit WITH housing AND (ear or hearing or microphone)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/28 20:12 |
| S13<br>1 | 0     | piezoelectric WITH circuit WITH housing AND (ear or hearing or microphone) AND (implant or implantable)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/28 20:12 |
| S13<br>2 | 26    | piezoelectric WITH circuit housing AND (ear or hearing or microphone) AND (implant or implantable)                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | AND | ON | 2006/07/28 20:12 |

## EAST Search History

|          |      |   |  |     |     |                  |
|----------|------|---|--|-----|-----|------------------|
| S13<br>3 | 1    | "6627104".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                                       | ADJ | ON  | 2006/08/03 16:29 |
| S13<br>4 | 0    | 2001/0003788  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                                       | ADJ | ON  | 2006/08/03 16:29 |
| S13<br>5 | 1    | "20010003788"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                                       | ADJ | ON  | 2006/08/03 16:55 |
| S13<br>6 | 1    | 10/757355   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO                                       | ADJ | ON  | 2006/08/03 16:55 |
| S13<br>7 | 0    | "DE-10301723.2-".\$.DID.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2007/05/15 20:39 |
| S13<br>8 | 1    | "DE-10301723-".\$.DID.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2007/05/15 20:40 |
| S13<br>9 | 2    | EP-1439737-\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2007/05/15 20:40 |
| S14<br>0 | 108  | (ossicle or ear) AND (hearing with (aid or assist)) AND (implant or implantable) AND ((circuit or circuitry) WITH (housing or container))                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/05/15 20:46 |
| S14<br>1 | 61   | (ossicle or ear) AND (hearing with (aid or assist)) AND (implant or implantable) AND ((circuit or circuitry) WITH (housing or container)) AND @ay<="2003" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/05/15 22:00 |
| S14<br>2 | 9626 | (600/9 600/10 600/11 600/12 600/13 600/14 600/15 600/29 600/30 600/31 600/32 623/14.13 604/96.01 128/897 128/898 128/899).ccls.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT                      | OR  | ON  | 2007/05/15 21:59 |
| S14<br>3 | 1    | (ossicle or ear) AND (hearing with (aid or assist)) AND (implant or implantable) AND ((circuit or circuitry) WITH (housing or container)) AND S142        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/05/15 22:00 |

## EAST Search History

|          |    |   |  |    |    |                  |
|----------|----|---|--|----|----|------------------|
| S14<br>4 | 6  | (ossicle or ear) AND (implant or implantable) AND ((circuit or circuitry) WITH (housing or container)) AND S142 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/15 22:02 |
| S14<br>5 | 13 | (ossicle or ear) AND ((circuit or circuitry) WITH (housing or container)) AND S142                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/15 22:02 |